MANDIK®

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Fire Dampers	Circular				Rectangular			Control Systems
CE	FDMR 	FDMA-PM 	CFDM 	CFDM-V 	FDMB 	FDMQ 	FDMA 	
Size								
Dimensions	100-800	900 & 1000	100-200	100-200	100x100 - 1000x500 - 0.5m2	150x150 - 1500x800	180x180 - 1600x1000	
Non-Standard Sizing	x	x	x	x	✓	✓	✓	
Fire Resistance Classification								
Classification Standard BS EN 13501-3 Product Standard BS EN 15650 Fire Test Standard BS EN 1366-2	EI 120 (Ve-Ho i<->o) S (500Pa)	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S (500Pa)	EI 120 (Ve-Ho i<->o) S	EI 120 (Ve-Ho i<->o) S	
Installation Method								
Wall (Ve) - Concrete, Masonry or Lightweight Construction	✓ **60/90/120 M**	✓ **120M**	✓	✓	✓ **30/60/90/120 M**	✓ **60/90/120 M**	✓**90/120 M**	
Wall thickness (minimum) - solid/flexible wall construction	100mm	100mm	100mm	100mm	100mm	100mm	100mm	
Ceiling/floor (ho) - Concrete or Masonry	✓	✓	✓	✓	✓	✓	✓	
Wall thickness (minimum) - Ceiling/floor Concrete/aerated concrete	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	110mm/125mm	
Away from the Wall (Ve) - Concrete, Masonry or Lightweight	✓ **90M**	✓ **90M**	x	x	✓ **90/120 M**	✓ **90/120 M**	✓ **90 M**	
Away from the Ceiling/Floor (ho) - Concrete or Masonry	✓ **90M**	✓ **90M**	x	x	✓ **90M**	✓ **90M**	✓ **90M**	
British Gypsum EN Shaftwall (ask for others types)	x	x	x	x	✓ **60M/90 M**	✓ **120 M**	x	
Sandwich Panel Installation (whitewall)	✓ **90M**	x	x	x	x	x	x	
Damper rotation possible (dampers are not handed)	✓	✓	✓	✓	✓	✓	✓	
"Battery" Installation (multiple dampers) wall only	✓	x	x	x	✓ **90 M**	✓ **90 M**	x	
Actuators (Spring Return)								
Belimo 24V (**.50**) or 230V (**.40**) Drive Open/ Spring Close	✓	✓	x	x	✓	✓	✓	
Gruner 24V (**.50**) or 230V (**.40**) Drive Open/ Spring Close	✓	✓	x	x	✓	✓	✓	
Mechanical Spring Release (**0.1**) - Failsafe fusible link	✓	✓	✓	✓	✓	✓	✓	
Accessories								
Limit Switch/s for Mechanical Spring Release	✓	✓	✓	✓	✓	✓	✓	
Material Options								
Galvanised Steel	✓	✓	✓	✓	✓	✓	✓	
Powder Coating - Paint	✓	✓	✓	✓	✓	✓	✓	
Stainless Steel (AISI 316L) C4	✓	✓	✓	✓	✓	✓	✓	
Promat Impregnations for damp/aggressive environments	✓	✓	✓	✓	✓	✓	✓	

Smoke Control Dampers	Circular		Rectangular				
CE	SEDS-R 	MSD-R 	SEDM-L 	SEDS-L 	MSD-S 	SEDM 	SEDS 
Size							
Dimensions	100-630	200-630	200x430 - 1200x2030	200x200 - 1200x1200	160x180 - 1500x800	180x180 - 1600x1000	180×180 - 1600x1000
Non-Standard Sizing	x	x	x	**Y (width only)**	✓	✓	**Y (width only)**
Fire Resistance Classification							
Clasification Standard BS EN 13501-4 Product Standard BS EN 12101-8 Fire Test Standard BS EN 1366-10	E600 120 (Ved-i<->o) S 1500 Cmod MA Single	EI 120 (Vew-How-i<->o) S 1500C 10000 AA Multi	EI 120 (ved,vew, i<->o) S 1000 Cmod HOT 400/30 AA/MA Multi	E600 120 (Ve i<->o) S 1500 Cmod MA Single	EI 120 (Ved-Hod-Vew-How i<->o) S 1500 Cmod HOT 400/30 AA Multi	EI 120 (ved,vew,hod, How, i<->o) S1500 Cmod HOT 400/30 AA/MA Multi	E600 90 (Ved-i<->o) S 1000 C300 AA Single
Installation Method							
Horizontal Duct (Ved)	✓	x	✓ **90/120 M**	✓	✓ **90/120 M**	✓ **90/120 M**	✓
Vertical Duct (Hod)	x	x	x	x	✓ **90/120 M**	✓ **90/120 M**	x
Wall (Vew) - Concrete, Masonry or Lightweight Construction	x	✓	✓ **90/120 M**	x	✓	✓	x
Wall thickness (minimum) - solid	N/A	100mm	100mm	N/A	100mm	100mm	N/A
Wall thickness (minimum) - flexible wall construction	N/A	125mm	100mm	N/A	125mm	100mm	N/A
Ceiling/floor (ho) - Concrete or Masonry	x	✓	x	x	✓	✓	x
Wall thickness (minimum) - ceiling/floor concrete/aerated concrete	N/A	150mm	x	N/A	150mm	150mm/125 (EIS120)	N/A
Damper rotation possible (dampers are not handed)	✓	✓	180°	x	✓	✓	✓
Battery Installation (multiple dampers) wall only	x	x	✓	x	x	✓	x
Compartment Applications							
Single Compartment	✓	✓	✓	✓	✓	✓	✓
Multi-Compartment	x	✓	✓	x	✓	✓	x
Activation System							
Automatically Activated (AA)	✓	✓	✓	✓	✓	✓	✓
Manually Activated (MA)	✓	x	✓	✓	x	✓	✓
Actuators (without Spring Return or Fuse)							
Belimo 24V **(.54)** or 230V **(.44)** Drive Open/ Drive Closed	✓	✓	✓	✓	✓	✓	✓
Belimo BEN 24 SR and BEE 24 SR .0-10V Modulating Control	✓	x	✓	✓	✓	✓	x
Schischek InMax (larger Sizes Only)	x	x	x	x	✓	✓	x
Material Options							
Galvanised Steel	✓	✓	x	✓	✓	x	✓
Calcium Silicate Board	x	x	✓	x	x	✓	x
Powder Coating - Paint	✓	✓	x	x	✓	x	✓
Stainless Steel (AISI 316L) C4	✓	✓	✓	✓	✓	✓	✓
Promat Impregnations for damp/aggressive environments	✓	✓	✓	✓	✓	✓	✓

Mandik can supply a whole range of standard and bespoke control systems to compliment our range of Fire and Smoke control dampers, from simple hard wired panels through to fully Compliant BS ISO 21927-9 panels, complete with fire rated & tested interfaces specifically for EN12101-8 Smoke control dampers.

Mandik Mechanical Electrical (MME)
Simple relay driven Mechanical/Electrical hard-wired panel with LED status indication.

Mandik Easy Addressable (MEA) Simple Addressable Bi-Directional networked panel for simple cause & effects and LED status indication.

Mandik Advanced Addressable (MAA)
Advanced Addressable Bi-Directional networked panel with LED status indication, unlimited cause and effect and programmable features.

Mandik Touch Screen (MTS)
Advanced PLC Advanced Addressable Bi-Directional networked panel with touch screen display, unlimited cause and effect and visual programmable features typically, menu driven building layouts. Mandik through our partner Blue River can design, supply, commission and maintain Fire and Smoke control dampers and controls offering a full System solution from one manufacturer.

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Notes:
Classifications shown are the best possible scenario - exact classification depends on wall type, installation and fire stopping method
Extended leads are not possible for Smoke Control Dampers
All options or permutations are not provided here - please contact us for more detailed requirements
Cmod tested Smoke control dampers can provide a 3rd / balanced position from the control system
The overall system design needs to take into account that some dampers are single bladed units, so very low or close tolerance airflow is not always possible.
All lightweight walls must be symmetrical as to BS EN 1363-1 and Tested to BS EN 1364-1